Under the Paperwork Reduction Act of 1995, no persons are required to re	spond to a collection of information	mark Office. U.S. DEPARTMENT OF COMM ation unless it displays a valid OMB control n	umber.				
UTILITY	Attorney Docket No.	LAR 15816-2					
PATENT APPLICATION	First Inventor W. Keats Wilkie						
TRANSMITTAL	Title	See 1 in Addendum	PTO				
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.	ER 120788117 US	8.9				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO:	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450	389 U				
1. X Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. X Specification [Total Pages 24] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed)	Computer Prog 8. Nucleotide and/or A (if applicable, all ned a. Computer b. Specificat i. CD- ii. Pap	Readable Form (CRF) ion Sequence Listing on: ROM or CD-R (2 copies); or	Ń				
 Detailed Description Claim(s) 	ACCOMPANYING APPLICATION PARTS						
- Abstract of the Disclosure 4. X Drawing(s) (35 U.S.C. 113) [Total Sheets 6] 5. Oath or Declaration [Total Sheets 3] a. Newly executed (original or copy) b. X Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. X Application Data Sheet. See 37 CFR 1.76	10. 37 CFR 3.73((when there is English Trans Information D Statement (ID Preliminary A Return Recei (Should be sp. Certified Copy (if foreign pric Nonpublicatio (b)(2)(B)(i). A or its equivale 17. X Other: Declar Attor	OS)/PTO-1499 Citations mendment pt Postcard (MPEP 503) pecifically itemized) by of Priority Document(s) pority is claimed) on Request under 35 U.S.C. 122 pplicant must attach form PTO/SB/35 ent. aration includes the Power of mey					
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:							
Continuation Continuation Continuation Continuation-in-part (CIP) Continuation No.: 09/430,677 Prior application information: Examiner Paul D. Kim Art Unit: 3729 For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
19. CORRESPON	DENCE ADDRESS						
Customer Number: 23351	OR L	Correspondence address below					
Name							
Address							
City	State	Zip Code					
	elephone ·	Fax					
Name (Print/Type) Kurt G. Hammerle Signature	Registration No. (Attorne	y/Agent) 36,819	==				
Signature Kint M. Kummerle		Date 9/3/20	03				

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Addendum

1. Piezoelectric Composite Apparatus and a Method for Fabricating the Same

FEE TRANSMITTAL			Complete if Known		
FEE IRAN		Application Number			
for EV	2002	Filing Date	September 3, 2003		
for FY 2003		First Named Inventor	W. Keats Wilkie		
Effective 01/01/2003. Patent fees are subject to annual revision. Applicant claims small entity status. See 37 CFR 1.27		Examiner Name			
		Art Unit			
TOTAL AMOUNT OF PAYMENT	(\$) 1,054.00	Attorney Docket No.	LAR 15816-2		
METHOD OF PAYMENT (check all that apply)		FEE CA	FEE CALCULATION (continued)		

Check
Deposit Account Number Deposit Account Number Deposit Account Number Deposit Account Number Deposit Account Name The Commissioner is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments Charge fee(s) indicated below Credit any overpayments
Deposit Account Number Deposit Account National Aeronautics and Space Administration Name The Commissioner is authorized to: (check all that apply) Charge fee(s) indicated below Careful time the pendency of this application Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account. FEE CALCULATION 1.BASIC FILING FEE Large Entity Small Entity Fee
Account Number Deposit Account Name The Commissioner is authorized to: (check all that apply) Charge fee(s) indicated below Cycredit any overpayments Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account. FEE CALCULATION 1. BASIC FILING FEE Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Fee Fe
Deposit Account National Aeronautics and Space Administration Name 1052 50 2052 25 25 25 25 25 25
The Commissioner is authorized to: (check all that apply) X Charge fee(s) indicated below X Credit any overpayments X Charge any additional fee(s) during the pendency of this application Charge fee(s) indicated below, except for the filling fee to the above-identified deposit account. FEE CALCULATION 1. BASIC FILING FEE Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Fee Pee Pee
Charge fee(s) indicated below Credit any overpayments 1812 2,520 1812 2,520 1814 2,520 1815 2,520 1816 2,520
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To the above-identified deposit account. FEE CALCULATION 1. BASIC FILING FEE Large Entity Small Entity Fee Fee Fee Fee Fee Fee Description Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee 1002 330 2002 165 Design filing fee 1004 750 2004 375 Reissue filing fee 1004 750 2005 80 Provisional filing fee 1005 160 2005 80 Provisional filing fee SUBTOTAL (1) (\$) 750.00 1251 110 2251 55 Extension for reply within first month 1252 410 2252 205 Extension for reply within second month 1253 930 2253 465 Extension for reply within fourth month 1254 1,450 2254 725 Extension for reply within fourth month 1255 1,970 2255 985 Extension for reply within fifth month 1401 320 2401 160 Notice of Appeal 1402 320 2402 160 Filing brief in support of an appeal 1403 280 2403 140 Request for oral hearing 1451 1,510 1451 1,510 Petition to institute a public use proceeding 1452 110 2452 55 Petition to revive - uninventional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE
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1002 330 2002 165 Design filing fee 1401 320 2401 160 Notice of Appeal 1402 320 2402 160 Filing brief in support of an appeal 1403 280 2403 140 Request for oral hearing 1451 1,510 1451
1003 520 2003 260 Plant filing fee
1005 160 2005 80 Provisional filing fee SUBTOTAL (1) (\$) 750.00 1451 1,510 Petition to institute a public use proceeding 1452 110 2452 55 Petition to revive - unavoidable 1453 1,300 2453 650 Petition to revive - unintentional 1504 1,300 2501 650 Utility issue (see (or reissue))
SUBTOTAL (1) (\$) 750.00 1452 110 2452 55 Petition to revive - unavoidable 1453 1,300 2453 650 Petition to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE
Extra Claims below Fee Paid 1502 470 2502 235 Design issue fee
Total Claims 30 -20** = 10 X 18 = 180 1503 630 2503 315 Plant issue fee
Independent 4 - 3** = 1 X 84 = 84 1460 130 Petitions to the Commissioner Multiple Dependent
1807 50 1807 50 Processing fee under 37 CPR 1.17(q)
Large Entity Small Entity Small Entity 1806 180 1806 180 Submission of Information Disclosure Stmt 1806 180
Code (\$) Code (\$) 8021 40 8021 40 Recording each patent assignment per property (times number of properties) 40.00
1202 18
1203 280 2203 140 Multiple dependent claim, if not paid 1810 750 2810 375 For each additional invention to be
1204 84 2204 42 ** Reissue independent claims examined (37 CFR 1.129(b)) over original patent 1801 750 2801 375 Request for Continued Examination (RCE)
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent 1801 750 2001 375 Request for Continued Examination (RCE) 1802 900 Request for expedited examination of a design application
Other fee (specify)
**or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if greater; For Reissues, see above **Or number previously paid, if

SUBMITTED BY				(Complete	(if applicable)
Name (Print/Type)	Kurt G. Hammerle	Registration No. (Attorney/Agent)	36,819	Telephone	757-864-2470
Signature	Kut M. Hummerle	_		Date	9/3/2003

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Practitioner's Docket No. LAR 15816-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: the Application of: W. Keats Wilkie et al.

Filed: September 3, 2003

For: Piezoelectric Composite Apparatus and a Method for Fabricating the Same

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

"Express Mail" label number ER 120788117 US Date of Deposit: September 3, 2003

I hereby state that the following attached papers:

Utility Patent Application Transmittal - 2 pages
Application Data Sheet - 3 pages
Fee Transmittal - 1 page (2 copies)
Specification, Claims, and Abstract - 24 pages
Drawings - 6 sheets
Declaration, Power of Attorney and Petition - 3 pages
Cover Sheet for Assignment Document - 3 pages (2 copies)
Assignment and Agreement - 3 pages
Return Postal Card

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10, on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Elaine C. McMahon Paralegal Specialist